What is claimed is:

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- 1. A display system for use in a vehicle, comprising:
- 2 a dashboard display, positioned in front of a driver
- 3 of the vehicle, and adapted to display graphic user
- 4 interface elements, in a predetermined graphic composition,
- 5 providing information to the driver regarding operation of
- 6 devices in the vehicle; and
- 7 a processor, coupled to receive signals from the
 - devices in the vehicle and to drive the display responsive
- 9 thereto, and to alter the graphic composition of the
- 10 display responsive to a selected input to the processor.
 - 1 2. A display system according to claim 1 wherein said
- 2 graphic user interfac¢ elements provide information
- -3 regarding at least one device selected from the group
 - 4 consisting of speedometer, tachometer, audio equipment, air
 - 5 conditioner, Internet browser, television, GPS, sun roof,
 - 6 windows, seat positioning, cellular telephone, fuel gauge,
 - 7 oil level gauge, tire pressure gauge, engine temperature
 - 8 gauge, brake temperature gauge, window-washer fluid gauge,
 - 9 and headlights.
 - 1 3. A display system according to claim 1 wherein the
 - 2 processor is adapted to alter the graphic composition of
 - 3 the display by adding a graphic user interface element to
 - 4 the dashboard display.
 - 1 4. A display system according to claim 1 wherein the
 - 2 processor is adapted to alter the graphic composition of
 - 3 the display by removing a graphic user interface element
 - 4 from the dashboard display.

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- 1 5. A display system according to claim 1 wherein the
- 2 processor is adapted to alter the graphic composition of
- 3 the display by changing the position of a graphic user
- 4 interface element on the dashboard display.
- 1 6. A display system according to claim 1 wherein the
- 2 processor is adapted to alter the graphic composition of
- 3 the display by changing the size of a graphic user
- 4 interface element on the dashboard display.
- 1 7. A display system according to claim 1 wherein said
- 2 input to the processor comprises a driver input provided by
 - 3 a driver of the vehicle.
- 1 8. A display system according to claim 7 wherein said
- 2 driver input comprises a vocal input.
- 1 9. A display system according to claim 7 wherein said
- 2 driver input comprises selection of an image, icon or
- 3 button on the dashboard display, or selection of an item
- 4 from a pull-down menu on the dashboard display.
- 1 10. A display system according to claim 7 wherein said
- 2 vehicle also comprises driver-manipulable steering
- 3 apparatus, said display system further comprising a
- 4 selecting device mounted upon said steering apparatus, for
- 5 use by a driver of the vehicle in providing said driver
- 6 input.
- 1 11. A display system according to claim 10 wherein said
- 2 selecting device comprises a pointing device.
- 1 12. A display system according to claim 11 wherein said
- 2 pointing device is selected from the group consisting of a
- 3 joystick, a thumb-button, track-point, and pressure
- 4 sensitive hand-grips.

- 1 13. A display system according to claim 11 wherein said
- 2 selecting device also comprises clickable buttons located
- 3 upon said steering apparatus.
- 1 14. A display system according to claim 11 wherein said
- 2 selecting device also comprises clickable buttons located
- 3 upon said pointing device.
- 1 15. A display system according to claim 10 wherein said
- 2 steering apparatus comprises a steering wheel.
- 1 16. A display system according to claim 10 wherein said
- 2 steering apparatus comprises handlebars.
- 1 17. A display system according to claim 10 wherein
- 2 inputting said driver input to said processor does not
- 3 require the driver removing a hand from the steering
- 4 apparatus.
- 1 18. A display system according to claim 7 wherein said
- 2 . driver input is selected from the group consisting of a
- 3 request to initiate a telephone call, a request to change
- 4 the internal temperature of the vehicle, a request to
- 5 utilize the GPA, and a request to adjust the audio
- 6 equipment.
- 1 19. A display system according to claim 1 wherein said
- 2 input to the processor comprises an input from a gauge of
- 3 vehicle performance.
- 1 20. A display system according to claim 19 wherein said
- 2 gauge of vehicle performance comprises a gauge selected
- 3 from the group consisting of speedometer, tachometer, fuel
- 4 gauge, oil level gauge, tire pressure gauge, engine
- 5 temperature gauge, brake temperature gauge, window washer
- 6 fluid gauge.

- 1 21. A display system according to claim 1 wherein said
- 2 input to the processor comprises an input from a monitor of
- 3 a status of vehicle components.
- 1 22. A display system according to claim 21 wherein said
- 2 monitor of vehicle components monitors the status of a
- 3 component selected from the group consisting of sun roof,
- 4 windows, seat, internal rear-view mirror, external mirror,
- 5 steering column, seat belt, door.
- 1 23. A display system according to claim 1 wherein said
- 2 input to the processor comprises an input from an auxiliary
 - 3 device in the vehicle.
 - 1 24. A display system according to claim 23 wherein said
 - 2 auxiliary device is selected from the group consisting of
- 3 audio equipment, air conditioner, Internet browser,
- 4 television, e-mail terminal, GPS, cellular telephone,
- 5 travel log, pager and personal digital assistant (PDA).
- 1 25. A display system according to claim 1 wherein said
- 2 input to the processor is generated responsive to an
- 3 electronic signal from a source external to the vehicle.
- 1 26. A display system according to claim 25 wherein said
- 2 external electronic signal is generated due to an event
- 3 selected from the group consisting of receipt of an
- 4 incoming telephone call, receipt of an e-mail message,
- 5 download of a digital music recording, and receipt of a
- 6 traffic alert.
- 1 27. A display system according to claim 1 wherein said
- 2 dashboard display is personally configured for an
- 3 individual driver.
- 1 28. A display system according to claim 27 wherein said
- 2 display is personally configured responsive to an input to

- 3 the processor of driver preferences regarding the graphic
- 4 composition of the dashboatd display.
- 1 29. A display system according to claim 27 wherein said
- 2 display is personally configured responsive to an input to
- 3 the processor of driver preferences relating to operation
- 4 of the dashboard display
- 1 30. A display system according to claim 27 wherein said
- 2 display is personally configured responsive to an input to
- 3 the processor of driver preferences relating to operation
- 4 of at least one device in the vehicle.
- 1 31. A display system according to claim 27 wherein said
- 2 display is personally configured responsive to an input of .
- 3 driver preferences to the processor at a location remote
- 4 from the vehicle.
- 1 32. A display system according to claim 27 wherein said
- 2 display is personally configured responsive to an input of
- 3 driver preferences to the processor within the vehicle.
- 1 33. A display system according to claim 32 wherein said
- 2 input of driver preferences comprises an input to the
- 3 processor while the vehicle is driving.
- 1 34. A display system according to claim 32 wherein said
- 2 input of driver preferences comprises driver preferences
- 3 learned by the processor while the vehicle is driving.
- 1 35. A di-splay system according to claim 1 wherein at least
- 2 one configuration of the graphic composition of the
- 3 dashboard display is blocked while the vehicle is moving.
- 1 36. A vehicle comprising:
- 2 steefing apparatus;
- 3 a dashboard display; and

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- 4 a selecting device mounted on the steering apparatus
- 5 for use by a driver of the vehicle in interacting with the
- 6 display.
- 1 37. A vehicle according to claim 36 wherein said selecting
- 2 device comprises a pointing device.
- 1. 38. A vehicle according to claim 37 wherein said pointing
- 2 device is selected/from the group consisting of a joystick,
- 3 a thumb-button, track-point, and pressure sensitive
- 4 hand-grips.
- 1 39. A vehicle/according/to clamm 37 wherein said selecting
- 2 device also comprises clickable buttons located upon said
- 3 steering apparatus.
- 1 40. A vehicle according to claim 37 wherein said selecting
- device also comprises clickable buttons located upon said
- 3 pointing device.
- 1 41. A vehicle according to claim 36 wherein said steering
- 2 apparatus comprises a steering wheel.
- 1 42. A vehicle according to claim 36 wherein said steering
- 2 apparatus comprises handlebars.
- 1 43. A vehicle according to claim 36 wherein said dashboard
- 2 display is adapted to display graphic user interface
- 3 elements, in a predetermined graphic composition, providing
- 4 information to the driver regarding operation of devices in
- 5 the vehicle, and
- 6 wherein said vehicle also comprises a processor,
- 7 coupled to receive signals from the devices in the vehicle
- 8 and to drive the display responsive thereto, and to alter
- 9 the graphic composition of the display responsive to a
- 10 selected input to the processor.

- 1 44. A method for displaying information regarding 2 operation of in-vehicle devices, comprising:
- 3 receiving signals from the devices;

displaying graphic user interface elements in a predetermined graphic composition on a dashboard display positioned in front of a driver of the vehicle, so as to provide information to a driver of the vehicle regarding operation of devices; and

- 9 modifying the graphic composition of the display 10 responsive to a selected event associated with the vehicle.
- 1 A method according to claim 44 wherein said graphic 2 user interface elements grovide information regarding at least one device selected from the group consisting of 3 speedometer, tachometer, dudio equipment, air conditioner, 4 5 Internet browser, television, GPS, sun roof, windows, seat 6 positioning, cellular telephone, fuel gauge, oil level 7 gauge, tire pressure gauge, engine temperature gauge, brake 8 window-washer temperature gauge, fluid gauge and 9 headlights.
- 1 46. A method according to claim 44 wherein modifying the 2 graphic composition of the display comprises adding a 3 graphic user interface element to the dashboard display.
- 1 47. A method according to claim 44 wherein modifying the 2 graphic composition of the display comprises removing a 3 graphic user interface element from the dashboard display.
- 1 48. A method according to claim 44 wherein modifying the 2 graphic composition of the display comprises changing the 3 position of a graphic user interface element on the 4 dashboard display.

- 1 49. A method according to claim 44 wherein modifying the
- 2 graphic composition of the display comprises changing the
- 3 size of a graphic user interface element on the dashboard
- 4 display.
- 1 50. A method according to claim 44 wherein said event
- 2 associated with the vehicle comprises a control signal
- 3 input by a driver of the vehicle.
- 1 51. A method according to claim 50 wherein said control
- 2 signal comprises a vocal input.
- 1 52. A method according to claim 50 wherein inputting said
- 2 control signal comprises selecting an image, icon or button
- 3 on the dashboard display, or selecting an item from a
- 4 pull-down menu on the dashboard display.
- 1 53. A method according to claim 50 wherein inputting said
- 2 control signal comprises manipulating a selecting device
- 3 mounted upon steering apparatus of the vehicle.
- 1 54. A method according to claim 53 wherein said selecting
- 2 device comprises a pointing device.
- 1 55. A method according to claim 54 wherein said pointing
- 2 device is selected from the group consisting of a joystick,
- 3 a thumb-button, track-point, and pressure sensitive
- 4 hand-grips.
- 1 56. A method according to claim 54 wherein said selecting
- 2 device also comprises dlickable buttons located upon said
- ... 3 steering apparatus.
 - 1 57. A method according to claim 54 wherein said selecting
 - 2 device also comprises clickable buttons located upon said
 - 3 pointing device.

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- 58. A method according to claim 53 wherein inputting said 1
- control signal does not require the driver removing a hand 2
- from the steering apparatus. 3
- A method according to $\not c$ laim 50 wherein said control 1
- signal is selected from the group consisting of a request 2
- to initiate a telephone call, a request to change the 3
- internal temperature of the vehicle, a request to utilize 4
- the GPA, a request to adjust the audio equipment. 5
- 60. A method according to claim 44 wherein said event 1
- associated with the vehicle comprises an input received 2
- 3 from a gauge of vehicle performance.
- A method according to claim 60 wherein said gauge of 1
- vehicle performance comprises a gauge selected from the 2
- group consisting of speedometer, tachometer, fuel gauge, 3
- oil level gauge, tire pressure gauge, engine temperature
- gauge, brake temperature gauge, window-washer fluid gauge. 5
- 62. A method according to claim 44 wherein said event 1
- associated with the vehicle comprises an input received 2
- from a monitor of a status of vehicle components. 3
- 63. A method according to claim 62 wherein said monitor of 1
- vehicle components monitors the status of a component
- selected from the group consisting of sun roof, windows,
- seat, internal rear-view mirror, external mirror, steering 4
- column, seat belt, door and headlight. 5
- 64. A method according to claim 44 wherein said event 1
- associated with the vehicle comprises an input received 2
- from an auxiliary device in the vehicle. 3
- 65. A method according to claim 64 wherein said auxiliary 1
- device is selected from the group consisting of audio 2
- equipment, air conditioner, Internet browser, television, 3

- 4 e-mail terminal, GPS, cellular telephone, travel log, pager
- 5 and PDA.
- 1 66. A method according to claim 44 wherein said event
- 2 associated with the vehicle comprises receipt of an
- 3 external electronic signal.
- 1 67. A method according to claim 66 wherein said external
- 2 electronic signal comprises a signal associated with an
- 3 incoming telephone call, receipt of an e-mail message, or
- 4 receipt of a traffic alert.
- 1 68. A method according to claim 44 wherein displaying the
- 2 graphic user interfade elements comprises personally
- 3 configuring the dashboatd display for an individual driver.
- 1 69. A method according to claim 68 wherein personally
- 2 configuring comprises configuring the graphic user
- 3 interface elements responsive to an input of driver
- 4 preferences regarding the graphic composition of the
- 5 dashboard display.
- 1 70. A method according to claim 68 wherein personally
- 2 configuring comprises configuring the graphic user
- 3 interface elements responsive to an input of driver
- 4 preferences relating to operation of the dashboard display.
- 1 71. A method according to claim 68 wherein personally
- 2 configuring comprises configuring the graphic user
- 3 interface elements responsive to an input of driver
- 4 preferences relating to operation of at least one device in
- 5 the vehicle.
- 1 72. A method according to claim 68 wherein said inputting
- 2 driver preferences occurs at a remote location from the
- 3 vehicle.

- 1 73. A display system a cording to claim 68 wherein said
- 2 input of driver prefered ces occurs within the vehicle.
- 1 74. A method according to claim 73 wherein said input of
- 2 driver preferences occurs while driving.
- 1 75. A method according to claim 73 wherein personally
- 2 configuring comprises learning driver preferences while
- 3 driving.
- 1 76. A method according to claim 44 modifying the graphic
- 2 configuration comprises blocking some configurations of the
- 3 graphic compositi ϕ n of the dashboard display while the
- 4 vehicle is moving
- 1 77. A method for controlling a dashboard display of a
- 2 vehicle comprising manipulating a pointing device located
- 3 upon the steering apparatus of said vehicle.
- 1 78. A method according to claim 77 wherein said pointing
- 2 device comprises a joystick.
- 1 79. A method according to /claim 77 and also comprising
- 2 manipulating clickable buttons located upon said steering
- 3 apparatus.
- 1 80. A method acdording/to/claim 77 and also comprising
- 2 manipulating clickable puttons located upon said pointing
- 3 device.
- 1 81. A method according to claim 77 and also comprising:
- 2 receiving signals/from in-vehicle devices;
- displaying graphic user interface elements in a
- 4 predetermined graphic composition on the dashboard display
- 5 so as to provide information to a driver of the vehicle
- 6 regarding operation of at least one of the in-vehicle
- 7 devices; and

